

MR3003-62
Application Serial No. 10/691,493

AMENDMENTS TO THE CLAIMS:

This Listing of Claims will replace all prior versions, and Listings, of Claims in the Application:

Listing of Claims:

Claims 1-20 (canceled).

Claim 21 (New): A liquid fuel oil transformation device, comprising:

a fuel oil conversion cylinder containing a fuel oil body therein, and provided with a fuel oil filling port used for adding fuel oil, a constant-temperature means, and a fanning means used for feeding air into said fuel oil conversion cylinder beneficial for generating oil vapor containing fuel oil and then for outputting said oil vapor from said fuel oil conversion cylinder;

a vapor transportation pipe, one end of which is connected to said fuel oil conversion cylinder for delivering fuel vapor; and

a base connected to the other end of said vapor transportation pipe and provided with a coupling portion for coupling to an oil vapor combustion device.

MR3003-62
Application Serial No. 10/691,493

Claim 22 (New) The fuel oil transformation device according to Claim 21, wherein said fanning device in said fuel oil conversion cylinder is connected with a fanning pipe for delivering air to the bottom of said fuel oil conversion cylinder and releasing same into said fuel oil body.

Claim 23 (New) The fuel oil transformation device according to Claim 22, further comprising a check valve provided between said fanning means and said fanning pipe for the prevention of an adverse flow of air, fuel air, and oil vapor.

Claim 24 (New) The fuel oil transformation device according to Claim 21, wherein said fanning means includes a fanning motor.

Claim 25 (New) The fuel oil transformation device according to Claim 24, wherein said fanning motor is a low-pressure fanning motor.

Claim 26 (New) The fuel oil transformation device according to Claim 24, wherein a fanning pressure supplied by said fanning motor ranges from 0.03 to 0.06 kg/m².

MR3003-62

Application Serial No. 10/691,493

Claim 27 (New) The fuel oil transformation device according to Claim 24, further comprising a pressure-controlling switch in said fanning means for stopping the operation of said fanning means if an accumulation of pressure inside said fuel oil conversion cylinder increases.

Claim 28 (New) The fuel oil transformation device according to Claim 24, further comprising a battery in said fanning means for saving and supplying electric power required for said fanning motor.

Claim 29 (New) The fuel oil transformation device according to Claim 21, wherein said constant-temperature means includes a temperature controller, and a constant-temperature rod, said constant-temperature rod extending closely to the bottom of said fuel oil conversion cylinder to deeply penetrate into said fuel oil body for maintaining a constant temperature.

Claim 30 (New) The fuel oil transformation device according to Claim 21, wherein a vapor outlet valve is provided at a connection of said fuel oil conversion cylinder with said vapor transportation pipe, allowed for opening, closing, and adjusting a discharging flow of oil vapor.

MR3003-62

Application Serial No. 10/691,493

Claim 31 (New) The fuel oil transformation device according to Claim 21, wherein said fuel oil body includes a common solvent, n-Hexane, and an interface active agent capable of mutually combining water with oil.

Claim 32 (New) The fuel oil transformation device according to Claim 31, wherein said fuel oil body further includes a perfume.

Claim 33 (New) The fuel oil transformation device according to Claim 21, wherein said oil vapor combustion device is an oil vapor lamp.

Claims 34 (New) The fuel oil transformation device according to Claim 21, wherein said oil vapor combustion device is an oil vapor lamp.

MR3003-62

Application Serial No. 10/691,493

Claim 35 (New) The fuel oil transformation device according to Claim 34, wherein said oil vapor lamp comprises:

- a coupling body for coupling to said coupling portion of said base;
- a vapor duct provided on said coupling body for directing oil vapor;
- a lamp wick covered at one end of said vapor duct for illuminating when oil vapor is ignited thereat; and
- a lampshade provided on said coupling body, presented as an encirclement mode for said vapor duct and said lamp wick in order for windproofing and lamp wick protection.

Claim 36 (New) The fuel oil transformation device according to Claim 35, wherein said coupling body of said oil vapor lamp is further provided with an adjustment button for controlling the flow of oil vapor in order for the adjustment of the brightness of said oil vapor lamp.

Claim 37 (New) The fuel oil transformation device according to Claim 21, wherein said base further includes other gas burners.

Claim 38 (New) The fuel oil transformation device according to Claim 21, wherein base further includes other liquid burners.